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GHULAM ISHAQ KHAN INSTITUTE OF ENGINEERING SCIENCES AND TECNOLOGY (GIKI

Engineering Sample Admission Test 01 MATHEMATICS:

Directions: For each question below you are given four choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER ALL ANSWER MUST BE GIVEN ON THE ANSWER SHEET. YOUR ANSWERS MUST BE INDICATED BY LETTERS (A, B, C, D) AND NOT BY THE WORDS THEMSELVES. 1. Which of the following lists of physical quantities consists only of vectors: (a) Time, temperature, velocity (b) Force, volume, momentum (c) Velocity, acceleration, mass (d) Force, acceleration, velocity 2. If (a × b) points along negative z-axis, then the vectors a and b must lie in (a) .zx-plane (c) .xy-plane (d) None of the above 3. k x =	MATHEMATICS:			
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(a) 90^{0} (b) 180^{0} (c) 270^{0} (d) None	_ ` ` ` _	1	1	(6)
	The torque on a obay win be zer	, 0	•	(1) N
8 If we go away from the surface of the earth, a distance equal to the one third of the radius of the earth, the		· ·		\
value of g will be multiplied by?			o the one third of th	e radius of the earth, the
(a) $1/2$ (b) $9/16$ (c) $1/9$ (d) $16/9$			(c) 1/9	(d) 16/9
9. For certain values F and d, work done is zero when the angle between the force and displacement is:			` /	` '

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 90^{0}

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(b) 30^{0}

(d) 180°



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10.		orce acting on a body Gravitational mass		e gravitational field a Weight	it any po		Acceleration	(0	d) [Inertia	
11.		is kinetic energy of a 0 Joules	•	of mass 10 kg movi 20 Joules	ng with		city 1m/s ² ? 5 Joules	((d) :	2.5 Joules	
12.	` '	le harmonic motion is	` '		ted as	(0)	5 Joures	(2.3 Joures	
12.	-	a α– x		.a α x	(c)	V o	.— x	(d)	Fα	;- x	
13.	, ,	requency of second p	` ′		· /				- 1		
10.		1 hertz		2 hertz	(c)	0.5	hertz	(d)	No	ne of the ab	ove
14.	A boo	dy with frequency f w	ould	complete one vibrati	ion in						
	(a) l	F seconds	(b)	$\frac{1}{f}$ seconds	(c)	1 se	econd	(d)	$\frac{1}{T}$ s	seconds	
15.	The ra	ate of evaporation de	pends	s upon:							
		Nature of liquid				4	temperature of	f liqui	d an	d air	
	(c)	The area of the expos	ed su	rface of the liquid	(d)	All	of the above				
16.	The s	aturated vapour press	aire o	f a given liquids:		X					
10.		Increases with rise in		_	(b)	Dec	creases with rise	e in te	empe	erature	
	(c) I	May increase or decre	_		(d)	Ren	nains unchange		-		
		temperature					perature				
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or (Onlin	e Test Preparat	ion:	www.thecatonlin	ne.com	<u>l</u>					
17.	Suppo	ose the co-efficient of	f linea	ar expansion of copp	er is 0.0	0015	6 per degree C	Wha	t wi	ll be the co-	-
		ent of volume expans			_						
		Same as that of linear			(b)		o times as that			-	
10		Three times as that of		=			half as that of		-		
18.		th of metal rod is 100 neters will it contract				ansio	n of metal is 0.	00002	2K 1	By now ma	any
		1.001		0.150	(c)	0.00	01	(d)	0.0	1	
19.	The C	Coulomb force in a m	ediun	n of relative permitti	vity ε_{*} is	give	n by:	, ,			
		8		_					/	F	
	(a) l	$F = \frac{\sigma_F}{F}$	(b)	$F' = \frac{F}{\varepsilon_r}$	(c)	F' =	$\mathbf{F}_{\mathcal{E}_{\mathbf{r}}}$	(d)	F' =	$=\frac{F}{\mathcal{E}_0\mathcal{E}_r}$	
20.	Canac	city of a capacitor dep	nends	, IIDOD						0 7	
20.		The distance between		-	(b) Th	e nat	ure of the diele	ctric t	etw	een the plat	tes
1		The size of the plates	-				ne above			1	
21	The n	nagnetic force F act	ing or	n charge a when it m	OVAC WI	thar	elocity v throu	oh a r	naaı	netic field F	2 ic

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(c) $F_m = q v^3 \times B$

(b) $F_m = q v^2 \times B$

given by

(a) $F_m = q v \times B$

(d) $F_m = q v^4 \times B$



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22.	A substance which behaves like a magnet in the presence of a strong magnetic field is called
	(a) Magnets (b) Ferro magnets (c) Electromagnets (d) None of the about
23.	In a circuit, if a resistance of the conductor is increased then current in the circuit will:
	(a) Increase (b) Decrease (c) Remain the same (d) First increase and then decrease
24.	The phenomenon that the resistance of a metal falls exactly to zero at a few degrees above absolute zero is called:
	(a) Conductivity (b) Low conductivity (c) Super-conductivity (d) Low resistivity
25.	Why should a resistance be introduced in a circuit in series deliberately?
	To increase current (a) and decrease Voltage (b) To decrease current and voltage (c) To make current zero (d) To make voltage
26.	In a house circuit, all electrical appliances are connected in parallel to each other between the line and
	neutral wires to get:
	(a) Same current and different voltage (b) Same current and same potential difference
	(c) Different current but same potential difference current and different potential difference
27.	Power dissipated in a circuit in the form of 'V' and 'R' can be determine as:
	(a) $P = \frac{V}{I}$ (b) $P = \frac{V^2}{R}$ (c) $P = \frac{R}{V^2}$
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	Lyman series lies in
	(a) Visible region (b) Ultra violet region (c) Infra red region (d) Far-infra red region
29.	According to Bohr's theory of hydrogen atom, an electron can revolve around a proton indefinitely if
	path is (b) A simple of constantly decreasing redive
	 (a) A spiral of increasing radius (b) A circle of constantly decreasing radius (c) A circle of an allowed radius (d) An ellipse
30	According to Bohr's theory of hydrogen atom, the radii R_n of stationary electron is given by the
30.	equation
	(a) $R_n = \frac{ke^2}{mv_n^3}$ (b) $R_n = \frac{ke^2}{mv_n^2}$ (c) $R_n = \frac{e^2}{mv_n^2}$ (d) $R_n = \frac{he^2}{mv_n^2}$
31.	An interesting application of laser is the production of three dimensional images called (a) Polygons (b) Holograms (c) Ovals (d) None of the above
32.	The laser device used to fragment gallstones and kidney stones is called
32.	(a) Laser beam (b) Laser scanner (c) Laser lithotropter (d) Ruby laser
32	
33.	Product of x-rays is a reverse phenomenon of

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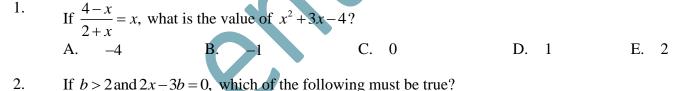
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	(a)	Photoelectric Effect	(b)	Compton Effect	(c)	Pair	Production	(d)	Annihilation of matter
34.	The	nucleus of hydrogen	with s	symbol 1H ³ is calle	ed				
		Proton		Deuteeron		(c)	Triton	(d)	All of the above
35.	Eler	nents with atomic nur	nber 2	Z > 82 are					
	(a)	Stable	(b)	Unstable		(c)	Small	(d)	None of the above
36.	Wh	ich of the following pa	article	es has very low per	netrati	on po	ower?		
	(a)	α-particle	(b)	β-particle		(c)	γ-particle	(d)	All of the above
37.	Wh	ich of the following pa	article	es move with veloc	city of	light	?		
		α-particle		β-particle	•	_	γ-particle	(d)	All of the above
38.	A ca	arbon nucleus emits a	partic	le x and changes i	nto ni	troge	n according to	he eq	uation
	$_{6}C^{14}$	$+ {}_{7}N^{14} \rightarrow x$ What is	x?						
	(a)	An electron	(b)	A proton (c)	An	α-pa	rticle	(d)	A neutron
39.	Dur	ing Pair-Production w	hich	particles are produ	ced?				
	(a)	Proton & Electron	(b)	Electron & Neutron		cx	Electron & Positron		(d) Proton & Neutron
40	TT1	C-1: 1 C4-4- D-44-	1			,	Oshron		
40.		Solid-State Detector		•		(b)	A rayaread bio	and E	ON junction
	(a) (c)	A forward biased PN A forward biased tra				(b) (d)	A reversed bia A Photocell	iseu P	in-junction
_	(0)	A forward brased tra				(u)	A I notocen		

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GENERAL MATH



A.
$$x > -3$$
 B. $x < 2$ C. $x = 3$ D. $x < 3$ E. $x > 3$

3.
$$\frac{(-1.5(1.2) - (4.5)(0.4)}{30} =$$
A. -1.2 B. -0.12 C. 0 D. 0.12 E. 1.2

If
$$n$$
 is a positive integer, then $n(n+1)(n+2)$ is

A. Even only B. Even only C. Odd whenever n D. Divisible E. Divisible when n is when n is odd is odd by 3 only when n is even when n is even odd n is even

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5.	If Jack had twice the 3 hamburgers at \$0.9		•			•		
	A. \$1.60	B. \$2.24		\$1.72	D.	-		\$5.44
6.	If a photocopier mak minutes? A. 360	es 2 copies in B. 480		n at the sam	ne rate, how		es does it	make in 4 1.440
	A. 300	D. 400	C.	370	D.	720	D.	1.440
7.	The price of a certain 10 percent. This series	es of successiv	e discounts is e	equivalent t		iscount of		
	A. 20%	B. 19%	C.	18%	D.	11%	É.	10%
8.	If $\frac{2}{1 + \frac{2}{y}} = 1$, then $y = \frac{1}{1 + \frac{2}{y}} = 1$	=						
	A. –2	B. $-\frac{1}{2}$	C.	$\frac{1}{2}$	D.	2	E.	3
9.	If a rectangular photo will be 22 inches and enlarged photograph	the ratio of w						
	A. 33	B. 32	C.	30	D.	27	E.	25
10.	If <i>m</i> is an integer suc	h that $(-2)^{2m}$	$=2^{9-m}$, then $m = 2^{9-m}$	=				
	A. 1	B. 2	C.		D.	4	E.	6
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PHYS Direct	ions: For each questic	RALL ANSWER RS MUST BE IND	ICATED BY LET	N ON THE A TERS (A, B, C	ANSWER SH C, D) AND NO	EET. OT BY THE W		EMSELVES.
((a) The mass of the e		` '	_	onsists the p		-	
((c) The energy of lig speed	ht increases wi	ith (d)	The pho electron	oto-electrons is	s are identi	cal with a	tomic
	An elevator initially acsimple pendulum in th	-		and ascends	with unifor	rm speed.	Fime perio	od of a
N	(a) Increase and then decrease	(b)	Decrease and increase	then	(c) Inc	erease	(d) Dec	erease
3.	A simple arrangement	by means of w	which e.m.f,s. a	re compare	d is known			

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	(a)	Voltmeter	(b)	Potentiometer	(c)	Ammeter	(d)	None of the above
4.	The	physics underlying	the ope	ration of a refriger	ator most	closely resembles th	e physic	s underlying,
	(a)	The freezing of water	(b)	The melting of ic	e (c)	The evaporation of vater	(d)	A heat engine
5.					tal surface	e move down the inc	lined pla	ane then
	down (a)	ward component of .mgCosθ	weight (b)	is $.mgSin\theta$	(c)	.mg Tanθ	(d)	None
6.	each		al conv	ex lens. The distan	ice from tl	ving focal length 40 nis lens at which an		
	(a)	40 cm	(b)	80 cm	(c)	20 cm	(d)	60 cm
7.	The (a) (c)	law which gives de Newton's law of g Second law of mot	ravitatio		(b) (d)	Third law of motion		
8.	Hyg	rometer is an instru	ment us	ed for measuring				
	(a) (c)	The compression of temperature Specific gravity of		vapour with	(b) (d)	The amount of wat atmosphere The density of air	er vapou	ır in the
9.	An i (a) (c)	nertial frame of refe Acceleration is zer Acceleration is uni	o	s one whose:	(b) (d)	Velocity is changing Inertia is not zero	ng with t	ime
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For	Onli	ine Test Prepa	ration	: www.thecato	nline.co	<u>m</u>		
10.	A m	oving car whose en	gine is s	switched off. come	s to rest a	fter some time due t	0:	
	(a)	Inertia	(b)	Its mass	(c)	Friction	(d)	Earth's gravitation
11.			-	•		on, the collision is sain, the collision is sain		•
12.	Acce (a)	ording to the second	l law of (b)	motion, acceleration Time	on is prop (c)	ortional to: Mass	(d)	Distance
14.			` /		` '	ge formed behind the Beyond 2f	` '	

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15. W	hen	the object is placed a	t prin	cipal focus of a conver	x lens tl	hen the imag	e is form	ed at	
A)	Same distance	B)	Infinity	C)	Same side o	f lens D))	Centre of curvature
16. W	hicl	one of the following	cann	ot measure wavelengtl	h of X-1	ays in any v	vay		
A)	Bragg's law	B)	Diffraction grating	C)	Compton ef	fect D))	Photo electric effect
17. W		n one of the following Interference	prope B)	erties is not found in b Diffraction		nd and light Polarization	Γ	D)	Reflection
18.		e relation between time $T = 2 \pi \omega$	-	od T and angular velo $T = \omega/2\pi$	city ω i	s given by (c) $T = 2$	π/ω	(d) $T = v \omega$
19.	Wh (a)	en a body moves in a 0^0	circle (b	t, the angle between its 45°	s linear	velocity v a (c) 90^0	nd angula	r velo (d	
20.	П r (a)	adians = 90 ⁰	(b)	180^{0}		(c) 60^{0}		(d)	30^{0}
21.	In r (a)	acing car moving alo Centripetal Force		ircular path the frictio Centripetal Acceleration	n at the	wheels and (c) Centry Mass	e of	of road (d)	ds provides the Centrifugal Force
22.		e time period is define One radian	ed as the	he time required to tra b) 180 degrees	verse	(c) One	evolving revolution		
23.	Wl (a)		partic (b)	les can induce artificia β-particle	al radio- (c)	•	ertain nu (d)		of the above
24.	Ide (a)	entify the alpha-partic	le? (b)	1 H 2	(c)	$_1$ H^3	(d)	₂ He ²	4
Dow	nlo	oaded these San	nple	Papers from: wv	ww.en	trytest.cor	<u>n</u>		
For (Onl	ine Test Prepara	ation	www.thecatonli	ne.con	<u>n</u>			
25.	Wl (a)		-	les move with velocity β-particle	_	nt? γ-particle	(d)	All	of the above
26.	Th a.	e torque on a body w	ill be z b.	zero if the angle betwee 180^0	een r an	nd F is zero 270 ⁰	or: d.	Non	e
27.	Wl a.	nat is kinetic energy of 10 Joules	of a bo b.	dy of mass 10 kg mov 20 Joules	ing wit c.	h velocity 1: 5 Joules	m/s ² ? d.	2.5 Jo	oules
28.	Wl a. c.	Time, temperature, Velocity, accelerat	veloc		onsists b. d.	only of vect Force, vol Force, acc	ume, mo		

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- 29. If two forces each of magnitude 5N act along the same line on a body, then the magnitude of their resultant will be
 - a. 5N

b. 10N

- c. 20N
- d. 30N
- 30. Applied force F on a body of mass m, moving with acceleration a is
 - a. m/a

b. a/m

- c. ma
- d. m:a

ENGLISH:

Directions: For each question below you are given choices. SELECT ANY ONE THAT IS MOST APPROPRIATE ANSWER

SENTENCE COMPLETION

Directions for Q 1 - 3

Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath in sentence are five lettered words or sets of words. Choose the word or set of words that best fits the meaning of the sentence as a whole.

- 1. Miss Watson termed Hock's behavior _____ because in her opinion noting could excuse his deliberate disregard of her commands.
 - A. devious

B. intolerant

C. Irrevocable

D. indefensible

- E. Boisterous
- 2. Either the surfing at Maui is_____, or I went there on an off day.
 - A. Consistent

B. Thrilling

C. Invigorating

D. Overrated

- E. Scenic
- 3. Your _____ remarks spoil the effect of your speech; try not to stray from your subject.
 - A. innocuous

B. Digressive

C. Derogatory

D. Persistent

E. Enigmatic

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ANALOGIES

<u>Direction:</u> Each question below consists of a related pairs of words or phrases, followed by five lettered pairs of words or phrases, Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

- 4. TELLER: BANK::
 - (a) Artist: museum
 - (b) Cashier: check
 - (c) Waiter: restaurant
 - (d) Borrower: loan
 - (e) Mourner: funeral
 - . INNING : BASEBALL ::
 - (a) round: boxing

- (b) puck: hockey
- (c) touchdown: football
- (d) serve : tennis
- (e) outing: hiking
- 6. DEGREE: TEMPERATURE::
 - (a) ounce: weight
 - (b) fathom: volume
 - (c) mass: energy

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(d) time: length (e) light: heat 7. PICK: GUITAR:: (a) peg: ukelele

(b) string: banjo (c) pipe: organ (d) bow: violin (e) head: tambourine

ANTONYM

Direction: In each of the following antonym questions, a word printed in capital letters precedes five lettered words or phrases. From these five lettered words or phrases, pick the one most nearly opposite in meaning to the capitalized word.

- 8. **NERVOUS:**
- Courageous (A) (B) Puzzle (C) Bold (D) Trainee 9. **NOTORIOUS: Fashionable** Renowned Invincible Inactive (D) (A) (B) (C) 10. **NOCTURNAL:** Marauding Patrolling (D) (A) (B) Daily (C) Harsh 11.
- **OBDURATE**:
 - (A) Fleeting (B) Finite (C) Yielding (D) Permanent

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READING COMPREHENSION

Direction: Please read the passage below and answer the questions on the basis of what is stated or implied.

Passage:

To be happy and really safe, one ought to have at least two or three hobbies and they must all be real. It is no use starting late in life to say "I will take an interest in this or that". A man may acquire great knowledge of topics unconnected with his daily work and yet hardly get any benefit or relief.

QUESTIONS

- 12. The writer argues that for real happiness
 - A) More than one hobbies are preferable
 - C) Hobbies are quite important

- Two or three hobbies are essential Hobbies should be interesting
- The phrase 'ought to' in the first sentence suggests 13.
 - A) Liking

B) Likelihood

D)

Compulsion C)

- Preference
- The words 'this or that' in the second sentence refer to 14.
 - A) Hobbies

B) **Topics**

C) Daily work

- None of the above
- Select the choice closest in meaning to the word 'hardly' in the last sentence 15.
 - Rarely

Never B)

Infrequently **C**)

Scarcely D)

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END OF TEST

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